

6TH GRADE CURRICULUM

ENERGY INVESTIGATIONS: ANALYZING YOUR SCHOOL ENERGY USE

Lesson 1: 6th Grade

Module Introduction: *Kilowatt Ours* Video

- Watch the video *Kilowatt Ours*
- Discuss electricity production in the United States—trade-offs, consequences, alternatives

Lesson 2: 6th Grade

Analyzing Your School: Memory Drawings

- Review K -5th energy conversion principles (if necessary)
- Discuss the students' views of buildings and their functions
- Create detailed drawings of your school from memory

Lesson 3: 6th Grade

Energy Investigations: Developing an Energy Use Investigation Plan

- Based on the word maps from Lesson 2, students will develop an energy investigation plan.

Lesson 4: 6th Grade

Daily School Energy Use

- Brainstorming exercises about the schools' daily energy use
- Create word maps as tool for organizing and discussing ideas

Lesson 5: 6th Grade

School Building Survey: Getting to Know Your School

- Students discuss and gather information about their schools' general energy use, the building envelope, and lighting

Lesson 6: 6th Grade

Investigations: Creating an Energy Use Inventory Checklist

- Create Energy Use Investigation Plans / Checklists these will provide the templates for the remainder of the module

Lesson 7: 6th Grade

Energy Investigations: Gathering the Data

- Small groups investigate their areas of research around the school

Lesson 8: 6th Grade

Energy Investigations: Writing the Energy Savings Action Plans

- Small group presentations of Energy Savings Action Plans

Lesson 9: 6th Grade

Energy Investigations: Presenting the Energy Saving Action Plans

- Small group presentations on the schools' energy use and energy saving ideas from each investigation site

Lesson 10: 6th Grade

Energy Investigations: Enacting the Energy Savings Action Plans

- Carry out one to three suggestions from the Energy Savings Action Plans